

**What is claimed is:**

1. A communication control system comprising a directory server which comprises:

a storage unit which stores a replica of  
directory data of records, each of which includes data  
5 of a counter communication end; and

a communication control unit which refers to said directory data replica to determine whether or not a connection of a communication request from said counter communication end to a mobile phone is permitted, in response to a connection confirmation request which is generated in response to said communication request, and transmits a response indicative permission or non-permission of the connection of said communication request to said mobile phone.

2. The communication control system according to claim 1, wherein said mobile phone comprises:

a storage unit which stores said directory data of records, each of which contains at least one  
5 of a name, phone number and e-mail address of said counter communication end;

an operation section which generates an upload instruction in response to an operation by a user of said mobile phone; and

10 a transmitting section which transmits said

directory data to said directory server in response to said upload instruction such that said directory data is stored as a part of said directory data replica in said directory server.

3. The communication control system according to claim 2, wherein a group of ones of the records has an edit flag,

said mobile phone further comprises:

5 an editing section which edits the group of records of said directory data in response to an operation by the user, and sets said edit flag, and

said transmitting section transmits the records of the groups with the set edit flags of said  
10 directory data to said directory server in response to said upload instruction such that said directory data of records with the set edit flags is stored as the part of said directory data replica in said directory server.

4. The communication control system according to claim 3, wherein the number of records in each group is one.

5. The communication control system according to claim 1, wherein said mobile phone comprises:

a storage unit;

a transmitting section which transmits said download instruction to said directory server; and

a receiving section which receives as said

10 directory data, a part of said directory data replica of records which are read out from said storage unit of said directory server in response to said download instruction, wherein each of the records contains at least one of a name, phone number and e-mail address

15 of said counter communication end.

said communication control system further  
10 comprises:

a switching apparatus which generates said connection confirmation request to said directory server in response to said phone call, and connects said phone call to said mobile phone when receiving

15 the permission response, and discards said phone call  
to said mobile phone when receiving the non-permission  
response, and

wherein said directory server refers to said  
directory data replica to determine whether said non-  
20 permission flag corresponding to said phone number of  
said counter communication end is set or reset,  
transmits said permission response to said switching  
apparatus when said non-permission flag is reset, and  
transmits said non-permission response to said  
25 switching apparatus when said non-permission flag is  
set.

7. The communication control system according to  
claim 1, wherein said communication request is an e-  
mail, and each of the records includes said e-mail  
address of said counter communication end and further  
5 includes a non-permission flag set when said e-mail  
should not be delivered to said mobile phone and reset  
when said e-mail should be delivered to said mobile  
phone,

said communication control system further  
10 comprises:

a mail server which generates said connection  
confirmation request to said directory server in  
response to said e-mail, and delivers said e-mail to  
said mobile phone when receiving the permission

15 response, and discards said e-mail to said mobile  
phone when receiving the non-permission response, and

wherein said directory server refers to said directory data replica to determine whether said non-permission flag corresponding to said e-mail address of said counter communication end is set or reset, transmits said permission response to said mail server when said non-permission flag is reset, and transmits said non-permission response to said mail server when said non-permission flag is set.

8. A mobile phone comprises:

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a storage unit which stores directory data of
records, each of which contains at least one of a
name, phone number and e-mail address of a counter
5 communication end;
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an operation section which generates an upload instruction in response to an operation by a user of said mobile phone; and

10       a transmitting section which transmits said  
directory data to an external unit in response to said  
upload instruction.

9. The mobile phone according to claim 8,  
wherein a group of ones of the records has an edit  
flag,

said mobile phone further comprises:

5           an editing section which edits the group of  
records of said directory data in response to an  
operation by the user, and sets said edit flag, and  
said transmitting section transmits the  
records of the groups with the set edit flags of said  
10   directory data to said directory server in response to  
said upload instruction such that said directory data  
of records with the set edit flags is stored as the  
part of said directory data replica in said directory  
server.

10.       The mobile phone according to claim 9,  
wherein the number of records in each group is one.

11.       The mobile phone according to claim 8,  
wherein said operation section generates a download  
instruction in response to an operation by a user of  
said mobile phone, and said transmitting section  
5   transmits said download instruction to said external  
unit, and

          said mobile phone further comprises:  
          a receiving section which receives said  
directory data from said external unit in response to  
10   said download instruction.

12.       A directory managing system comprises:  
          a directory server which stores a replica of

a mobile phone which comprises:

an operation section which generates

a transmitting section which transmits said directory data to said directory server in response to said upload instruction such that said directory data is stored as a part of said directory data replica in said directory server.

said mobile phone further comprises:

said transmitting section transmits the

records of the groups with the set edit flags of said  
10 directory data to said directory server in response to  
said upload instruction such that said directory data  
of records with the set edit flags is stored as the

part of said directory data replica in said directory server.

14. The directory managing system according to claim 13, wherein the number of records in each group is one.

15. The directory managing system according to claim 12, wherein said operation section generates a download instruction in response to an operation by a user of said mobile phone, and said transmitting  
5 section transmits said download instruction to said directory server, and

said mobile phone further comprises:

a receiving section which receives as said  
10 directory data, a part of said directory data replica of records which are read out from said storage unit of said directory server in response to said download instruction, wherein each of the records contains at least one of a name, phone number and e-mail address of said counter communication end.

16. A communication control method comprising the steps of:

(a) generating a connection confirmation request in response to a communication request;

5 (b) referring to a directory data replica to



determine whether or not a connection of a  
communication request from said counter communication  
end to said mobile phone is permitted, each of records  
of said directory data replica including data of a  
10 counter communication end; and

(c) transmitting a response indicative permission or non-permission of the connection of said communication request to said mobile phone based on whether or not the connection of said communication request from said counter communication end to said mobile phone is permitted.

17. The communication control method according to claim 16, wherein each of records of directory data contains at least one of a name, phone number and e-mail address of said counter communication end, and

5 said communication control method further comprises the steps of:

generating an upload instruction in response to an operation by a user of said mobile phone; and transmitting said directory data as a part of said directory data replica in response to said upload instruction.

18. The communication control method according to claim 17, wherein a group of ones of the records has an edit flag,

said communication control method further  
5 comprises the steps of:

editing the group of records of said  
directory data in response to an operation by the  
user;

10            setting said edit flag; and  
transmitting the records of the groups with  
the set edit flags of said directory data as the part  
of said directory data replica in response to said  
upload instruction.

19. The communication control method according to claim 18, wherein the number of records in each group is one.

20. The communication control method according to claim 16, further comprising the steps of:

generating a download instruction in response to an operation by a user of said mobile phone; and

5           holding a part of said directory data replica of records as said directory data.

21. The communication control method according to claim 16, wherein said communication request is a phone call, and each of the records includes said phone number of said counter communication end and further includes a non-permission flag set when said

mobile phone should not be connected to said counter communication end and reset when said mobile phone should be connected to said counter communication end,

said (a) generating step comprises the step

10 of:

generating said connection confirmation request in response to said phone call,

said (b) referring step comprises the steps of:

15 referring to said directory data replica to determine whether said non-permission flag corresponding to said phone number of said counter communication end is set or reset,

said (c) transmitting step comprises the

20 steps of:

generating said permission response when said non-permission flag is reset;

connecting said phone call to said mobile phone in response to said permission response;

25 generating said non-permission response to said switching apparatus when said non-permission flag is set; and

discarding said phone call to said mobile phone in response to said non-permission response.

22. The communication control method according to claim 16, wherein said communication request is an e-

mail, and each of the records includes said e-mail  
address of said counter communication end and further  
5 includes a non-permission flag set when said e-mail  
should not be delivered to said mobile phone and reset  
when said e-mail should be delivered to said mobile  
phone,

said (a) generating step comprises the step  
10 of:

generating said connection confirmation  
request in response to said e-mail,

said (b) referring step comprises the step  
of:

15 referring to said directory data replica to  
determine whether said non-permission flag  
corresponding to said e-mail address of said counter  
communication end is set or reset,

said (c) transmitting step comprises the  
20 steps of:

generating said permission response when said  
non-permission flag is reset;

delivering said e-mail to said mobile phone  
in response to said permission response;

25 generating said non-permission response when  
said non-permission flag is set; and

discarding said e-mail to said mobile phone  
in response to said non-permission response.

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